

WHAT IS CLAIMED IS:

1. A coating or paste ink formulation comprising ionically cross-linked polymers, wherein said ionic cross-linking is between a polymer containing acid functional groups and a polymer containing amino functional groups.

2. The formulation of claim 1, wherein the polymer containing the amino groups has an amine value of about 10 to 300.

3. The formulation of claim 1, wherein the polymer containing the amino groups has an amine value of at about 25 to 100.

4. The formulation of claim 1, wherein at least some of the acid functional groups are carboxylic acid groups.

5. The formulation of claim 1, wherein the polymer containing the acid groups has an acid value of about 10 to 300.

6. The formulation of claim 1, wherein the polymer containing the acid groups has an acid value of 25 to 100.

7. The formulation of claim 1, wherein the amino groups are di- or tri-substituted amines.

8. The formulation of claim 1, wherein said acid functional groups are partially or completely neutralized by a volatile amine.

9. The formulation of claim 8, wherein the volatile amine is mono-, di- or tri-substituted.

10. The formulation of claim 8, wherein the volatile amine is ammonia.

11. The formulation of claim 1, wherein at least one of the polymers is selected from the group consisting of an acrylic, polyester, polyesteramide, polyurethane, and polyamide polymer.

12. The formulation of claim 1, wherein at least one of the polymers is a rosin containing polymer.

13. The formulation of claim 1, wherein the ink or coating further contains UV or EB radiation curable acrylic diluents and optionally reactive oligomers.

14. A method of preparing a coating or a paste ink composition comprising:

(a) providing polymers containing functional acid and/or amino groups; and

5 (b) ionically cross-linking at least a portion of the

acid groups with the amino groups.

15. The method of claim 14, wherein the polymer containing the amino groups has an amine value of about 10 to 300.

16. The method of claim 14, wherein the polymer containing the amino groups has an amine value of about 25 to 100.

17. The method of claim 14, wherein the polymer containing the acid groups has an acid value of about 10 to 300.

18. The method of claim 14, wherein the polymer containing the acid groups has an acid value of about 25 to 100.

19. The method of claim 14, wherein the amino groups are di- or tri-substituted amines.

20. The method of claim 14 further comprising neutralizing a portion of the acid groups by a volatile amine.

21. The method of claim 20, wherein the volatile amine is mono-, di- or tri-substituted.

22. The method claim 20, wherein the volatile amine is ammonia.

23. The method of claim 14, wherein at least one of the polymers is selected from the group consisting of an acrylic, polyester, polyesteramide, polyurethane, and polyamide polymer.

24. The method of claim 14, wherein at least one of the polymers is a rosin containing polymer.

25. The method of claim 14, wherein the ink or coating further contains UV or EB radiation curable acrylic diluents and optionally reactive oligomers.